# AMERICAN UNIVERSITY OBSERVATORY

## MONTHLY BULLETIN

## METEOROLOGICAL SECTION

OWEN GINGERICH, DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

QC
990
.L4
M6
1958

LIBRARY
MAY 26 1958
WEATHER BUREAU

**BEIRUT, LEBANON**

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

**JANUARY 1958**

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# JANUARY 1958

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +... | | | | Thermometer Degrees Centigrade | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20·30 | Mean | Max. | Min. | 8:30 | 14:30 | 20.30 | Mean |
| 1 | 59.2 | 57.8 | 58.8 | 58.6 | 20.0 | 15.8 | 17.8 | 19.1 | 18.0 | 18.3 |
| 2 | 55.9 | 53.1 | 55.7 | 54.9 | 20.7 | 14.0 | 16.0 | 17.8 | 16.5 | 16.8 |
| 3 | 59.3 | 59.1 | 60.3 | 59.6 | 17.3 | 11.1 | 14.7 | 13.3 | 13.0 | 13.7 |
| 4 | 60.2 | 58.8 | 59.2 | 59.4 | 14.3 | 10.0 | 12.0 | 11.5 | 11.4 | 11.6 |
| 5 | 60.4 | 59.8 | 61.9 | 60.7 | 15.3 | 9.5 | 11.8 | 14.0 | 12.3 | 12.7 |
| 6 | 63.0 | 61.9 | 63.0 | 62.6 | 12.4 | 9.6 | 10.5 | 10.2 | 10.0 | 10.2 |
| 7 | 65.2 | 65.2 | 66.1 | 65.5 | 15.1 | 12.1 | 12.1 | 13.9 | 12.8 | 12.9 |
| 8 | 66.2 | 63.7 | 63.5 | 64.5 | 17.2 | 14.2 | 15.0 | 16.7 | 15.0 | 15.6 |
| 9 | 60.5 | 56.0 | 55.7 | 57.4 | 17.4 | 8.4 | 15.8 | 16.9 | 13.0 | 15.2 |
| 10 | 58.8 | 61.0 | 65 0 | 61.6 | 13.8 | 8.6 | 9.1 | 10.0 | 10.6 | 9.9 |
| 11 | 67.1 | 65.9 | 65.8 | 66.3 | 16 3 | 13.0 | 13.0 | 15.7 | 13.5 | 14.1 |
| 12 | 63.3 | 61.2 | 62.2 | 62.2 | 17.7 | 14.0 | 14.6 | 17.0 | 15.5 | 15.7 |
| 13 | 61.9 | 61.1 | 61.9 | 61.6 | 19.5 | 15.5 | 15.7 | 18.7 | 16.0 | 16.8 |
| 14 | 62.6 | 62.2 | 62.8 | 62.5 | 20.4 | 15.9 | 17.4 | 19.9 | 17.4 | 18.2 |
| 15 | 64.7 | 63.6 | 63.5 | 63.9 | 18.5 | 12.4 | 16.7 | 18.0 | 15.9 | 16.9 |
| 16 | 63.9 | 62.7 | 63.1 | 63.2 | 16.7 | 11.2 | 13.0 | 15.9 | 14.0 | 14.3 |
| 17 | 64.6 | 63.6 | 64.6 | 64.3 | 15.2 | 11.1 | 11.9 | 13.6 | 13.0 | 12.8 |
| 18 | 66.0 | 65.6 | 66.0 | 65.9 | 15.4 | 11.3 | 12.3 | 15.0 | 12.1 | 13.1 |
| 19 | 63.4 | 59.2 | 58 7 | 60.4 | 17.1 | 13.6 | 13.7 | 15.5 | 16.5 | 15.2 |
| 20 | 57.8 | 56.7 | 57.3 | 57.3 | 21.0 | 11.1 | 15.7 | 16.4 | 12.0 | 14.7 |
| 21 | 60.3 | 60.5 | 62.3 | 61.0 | 15.3 | 11.0 | 13.0 | 14.4 | 13.1 | 13.5 |
| 22 | 63.8 | 63.4 | 64.0 | 63.7 | 16.2 | 12.5 | 12.6 | 15.8 | 13.4 | 13.9 |
| 23 | 64.0 | 63.2 | 63.1 | 63.4 | 17.6 | 12.5 | 14.6 | 15.7 | 15.5 | 15.3 |
| 24 | 64.2 | 63.2 | 63.7 | 63.7 | 17.5 | 12.7 | 13.0 | 17.2 | 14.3 | 14.8 |
| 25 | 63.3 | 61.7 | 61.5 | 62.2 | 17.9 | 10.6 | 14.8 | 17.2 | 12.9 | 15.0 |
| 26 | 61.3 | 60.1 | 59.5 | 60.3 | 14.6 | 7.9 | 12.4 | 14.3 | 11.4 | 12.7 |
| 27 | 58.0 | 59.6 | 61.1 | 59.6 | 13.4 | 7.6 | 9.5 | 9.0 | 9.5 | 9.3 |
| 28 | 63.7 | 62.9 | 63.2 | 63.3 | 11.6 | 8.2 | 8.8 | 10.0 | 8.6 | 9.1 |
| 29 | 61.5 | 59.6 | 59.6 | 60.2 | 12.3 | 7.7 | 10.8 | 12.0 | 9.0 | 10.6 |
| 30 | 59.0 | 59.0 | 59.2 | 59.1 | 13.8 | 9.7 | 10.7 | 13.4 | 12.6 | 12.2 |
| 31 | 64.3 | 66.2 | 68.5 | 66.3 | 14.2 | 6.5 | 10.4 | 10.6 | 8.9 | 10.0 |
| | 62.17 | 61.21 | 61.96 | 61.78 | 16.31 | 11.27 | 13.21 | 14.80 | 13.15 | 13.71 |

Barometer, range for month 768.5 mm. — 753.1 mm.
„ 71-yr. average for month 763.184 mm.
Thermometer, range for month 21.0°C — 6.5°C
„ 71-yr. average for month 13.72°C
Rain total for month 353.66 mm.
„ 71-yr average for month 190.28 mm.
„ Total, Sept. 1st. to end of month 771.60 mm.
„ 71-yr average. Sept. 1st. to end of month 564.55 mm.

# JANUARY 1958

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor Millibars | | | | Relative Humidity per cent. | | | | sun. | Wind per day | Rain |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | Hrs. | Kms. | m.m. |
| 1 | 11.8 | 14.7 | 14.6 | 13.7 | 58 | 67 | 71 | 65 | 8.1 | 206 | |
| 2 | 15.2 | 16.6 | 12.4 | 14.7 | 84 | 82 | 65 | 77 | 2.7 | 874 | 12.80 |
| 3 | 13.5 | 12.9 | 13.1 | 13.2 | 82 | 85 | 88 | 85 | 0.0 | 370 | 33.46 |
| 4 | 12.3 | 11.9 | 9.7 | 11 3 | 88 | 86 | 71 | 82 | 0 1 | 531 | 19.15 |
| 5 | 12.4 | 12.4 | 12.5 | 12.4 | 91 | 78 | 85 | 85 | 1.4 | 414 | 23.40 |
| 6 | 10.9 | 10.3 | 10.2 | 10.5 | 83 | 81 | 81 | 82 | 1.2 | 414 | 20.56 |
| 7 | 10.8 | 11.6 | 10.2 | 10.7 | 76 | 72 | 69 | 72 | 1.5 | 401 | 2.68 |
| 8 | 9.2 | 9.5 | 10.4 | 9.7 | 54 | 50 | 59 | 54 | 2.1 | 729 | |
| 9 | 9.5 | 8.0 | 13.1 | 10.2 | 54 | 41 | 88 | 61 | 3.4 | 1035 | 4.30 |
| 10 | 9.9 | 11.0 | 10.2 | 10.4 | 86 | 90 | 89 | 85 | 0.7 | 454 | 37.20 |
| 11 | 10.4 | 10.5 | 10.8 | 10.6 | 69 | 59 | 70 | 66 | 6.7 | 274 | |
| 12 | 11.4 | 12.1 | 11.5 | 11.7 | 68 | 62 | 64 | 65 | 0.3 | 171 | |
| 13 | 9.2 | 15.9 | 15.6 | 13.6 | 52 | 74 | 84 | 70 | 6.6 | 167 | |
| 14 | 15.4 | 16.9 | 14.9 | 15.7 | 77 | 81 | 76 | 78 | 3.6 | 322 | |
| 15 | 15.0 | 14.2 | 12.4 | 13.9 | 80 | 69 | 65 | 71 | 7.6 | 557 | |
| 16 | 13.1 | 12.3 | 12.9 | 12.8 | 88 | 67 | 79 | 78 | 5.3 | 449 | 11.63 |
| 17 | 11.7 | 11 8 | 11.6 | 11.7 | 84 | 76 | 77 | 79 | 4.7 | 266 | 11.42 |
| 18 | 9.4 | 10.2 | 9.4 | 9.7 | 65 | 60 | 64 | 63 | 8.3 | 177 | |
| 19 | 6.9 | 10.0 | 9.5 | 8.8 | 46 | 57 | 51 | 51 | 0.9 | 399 | |
| 20 | 11.9 | 10.8 | 13.5 | 12.1 | 67 | 57 | 94 | 73 | 6.9 | 504 | 9.60 |
| 21 | 10.7 | 10.4 | 10.9 | 10.7 | 71 | 63 | 70 | 68 | 7.2 | 422 | 1.15 |
| 22 | 9.7 | 11.6 | 11.3 | 10.9 | 66 | 65 | 73 | 68 | 6.2 | 257 | |
| 23 | 11.0 | 11.2 | 12.5 | 11.6 | 66 | 63 | 71 | 67 | 0.1 | 217 | |
| 24 | 13.5 | 12.7 | 12.0 | 12.7 | 91 | 64 | 74 | 76 | 6.9 | 257 | 4.20 |
| 25 | 10.7 | 13.8 | 13.7 | 12.7 | 64 | 70 | 90 | 75 | 4.7 | 322 | 6.45 |
| 26 | 10.9 | 11.1 | 9.8 | 10.6 | 75 | 65 | 71 | 70 | 3.0 | 678 | 18.80 |
| 27 | 10.0 | 10.2 | 10.3 | 10.2 | 83 | 89 | 87 | 86 | 0.0 | 843 | 81.70 |
| 28 | 9.7 | 10.7 | 10.1 | 10.2 | 86 | 87 | 92 | 88 | 0.7 | 452 | 27.70 |
| 29 | 7.9 | 8.7 | 9.7 | 8.8 | 61 | 61 | 85 | 69 | 2.1 | 623 | 8.21 |
| 30 | 10.5 | 10.4 | 11.0 | 10.6 | 81 | 66 | 75 | 74 | 6.5 | 946 | 18.30 |
| 31 | 7.7 | 5.7 | 6.4 | 6.6 | 61 | 47 | 55 | 54 | 8.4 | 628 | 0.95 |
| | 11.04 | 11.63 | 11.49 | 11.39 | 72.8 | 68.8 | 75.0 | 75.4 | 3.80 | 463.19 | 11.41 |

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
**71 year averages are for period, 1875-1945**

# JANUARY 1958
## METEOROLOGICAL REGISTER

| Date | Clouds clear—0 Overcast—10 | | | | beaufort, scale Direction and force of wind | | | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | | |
| 1 | 8cu-ci | 7cu-st | 10ci-st | 8.3 | 2sw | 2se | 2se | light | |
| 2 | 10st | 8cu-st | 10cu-st | 9.3 | 2e | 4sw | 5ne | sligh | |
| 3 | 10st | 10st | 10cu-st | 10.0 | 2s | 2e | 2sw | light | T.Hail P.m |
| 4 | 10ni | 10st | 9cu-st | 9.7 | 3sw | 2sw | 2sw | ,, | |
| 5 | 10ni | 10ni | 9cu-st | 9.7 | 2sw | 2sw | 2sw | ,, | |
| 6 | 10st | 10st | 4ci-st | 8.0 | 2e | 2se | 3nw | light | Hail.p.m |
| 7 | 10st | 9st | 4ci-st | 7.7 | 2s | 2s | 2sw | ,, | |
| 8 | 10ci-st | 10ci-st | 10ci-st | 10.0 | 3sw | 3sw | 4sw | ,, | |
| 9 | 10st | 10st | 10ni | 10.0 | 3sw | 5sw | 4se | ,, | |
| 10 | 10st | 10ni | 6ci-st | 8.7 | 2se | 2sw | 3sw | slight | T.a m |
| 11 | 10st | 9st | 2ci | 7.0 | 2s | 2sw | 2sw | light | |
| 12 | 10st | 10st | 8ci | 9.3 | 2e | 2sw | 2sw | ,, | |
| 13 | 10cu | 5ci-st | 6ci | 7.0 | 2sw | 2sw | 2sw | ,, | D.p.m |
| 14 | 10ci | 10ci-st | 6ci | 8.7 | 2sw | 1n | 2nw | ,, | D.p.m |
| 15 | 9st | 0 | 8st-ci | 5.7 | 2sw | 3sw | 3sw | ,, | D.a.m |
| 16 | 10st | 10cu-st | 9cu-st | 9.7 | 2sw | 2w | 2sw | light | |
| 17 | 10ni | 10st | 6ci-st | 8.7 | 2se | 2e | 3sw | ,, | Rainbow.D.p.m |
| 18 | 3cu | 0 | 3ci | 2.0 | 2e | 2n | 2se | ,, | D.a.m |
| 19 | 10st | 10st | 10st | 10.0 | 1sw | 2e | 2sw | ,, | |
| 20 | 0 | 6ci-st | 10ni | 5.3 | 2sw | 4sw | 2sw | ,, | |
| 21 | 6ci | 0 | 3ci-st | 3.0 | 1sw | 3ne | 3ne | light | |
| 22 | 4cu-ci | 10st | 6ci-st | 6.7 | 1s | 2sw | 2sw | ,, | |
| 23 | 10st | 10st | 10st | I0.0 | 1s | 3sw | 2sw | ,, | |
| 24 | 10st | 6ci-st | 6ci | 7.3 | 2s | 2sw | 2sw | ,, | D.pm |
| 25 | 10ci-st | 10ci-st | 10cu-st | 10.0 | 2sw | 2sw | 1w | ,, | D.a.m |
| 26 | 10cu-st | 7cu-st | 10st | 9.0 | 3w | 2sw | 2sw | light | |
| 27 | 10st | 10ni | 10st | 10.0 | 5sw | 4sw | 2sw | slight | |
| 28 | 10ni | 10ni | 10st | 10.0 | 3sw | 3sw | 2sw | ,, | |
| 29 | 10st | 8st | 10ni | 9.3 | 4sw | 3sw | 3s | ,, | |
| 30 | 10st-cu | 9cu-st | 10st | 9.7 | 3sw | 3sw | 5sw | light | Hail .p.m |
| 31 | 6cu-st | 0 | 3ci-st | 3.0 | 4n | 4n | 3n | ,, | |
| | mean | | | 8.15 | | | | | |

Abbreviations : G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 0 | 4 | 2 | 6 | 17 | 1 | 0 | 0 | 31 |
| 14:30 | 3 | 1 | 3 | 2 | 1 | 20 | 1 | 0 | 0 | 31 |
| 20:30 | 1 | 2 | 0 | 3 | 1 | 21 | 1 | 2 | 0 | 31 |
| Total | 5 | 3 | 7 | 7 | 8 | 58 | 3 | 2 | 0 | 93 |

Number of days with rain 20, fog 0, thunderstorms 2, gale. 0
71 yr. av. number of days with rain during month 15.67
Time of reading minus 2 hours equals G.C.T